# THE TECH

VOL. XXX. NO. 20

BOSTON, MASS., THURSDAY, OCTOBER 27, 1910

PRICE TWO CENTS

#### GREAT CATASTROPHE AT FRESHMAN TUG OF WAR

# Many Struggles at Last Succumbs

After resisting the assaults of class tug-of-war teams for years, the twelve-inch square post at the Gym gave up the struggle last night, snapping off short during a four-minute pull of the Freshman rope stretchers. It seems almost pitiful that this coach of so many teams should have succumbed before taking part in a real Field Day contest. A whole team in itself, it has never been able to win its numerals, although the fence which surrounded it is decorated with the numbers of many classes. Perhaps its absolute lack of class spirit has prevented its acquiring some recognition because until last night it has pulled against one class as hard as against another. Does its final yielding denote lack of ability or desire? It took forty men to bring about this catastrophe and, at its consumma-mation, the entire forty Freshmen sank violently into the dust.

A record crowd reported last night, although the feature card of the af-ternoon was not advertised in ad-vance. Practice consisted of two fourminute pulls, together with eight short pulls. Tomorrow the team will divide begin practicing pistol starts, which have not been commenced as yet. Candidates for the team are elated at their first victory and hopes for a second victory on November 4 are

During the last two years this motor has been used by the students in tests, and has repeatedly shown up to 18 h.p., and double the speed designed for. Considering the fact that it had carried 50 per cent, overload for so long a time without trouble, the motor shows itself as being very well designed.

#### CALENDAR.

Thursday.

1.00—Rifle Club Meeting—33 Rogers. 1.30—E. E. Society Excursion to

4.00—Crew Practice. 4.00—1913 Football Practice—Oval. 4.00—1913 Tug-of-War Practice—

-1914 Football Practice—Field 4.00—1914 Relay Practice—Field. 4.00—1914 Tug-of-War Practice—

4.00 - Mandolin Club Rehearsal-Union.

4.00-Glee Club Rehearsal-Union. 4.15—Orchestra Rehearsal—Union. 4.15—Final Trials for 1919 Relay-

Friday. 1.00—Last Call for Theatre Tickets

1.00-Theatre Tickets on Sale-

-Crew Practice.

4.00-1913 Football Practice-Oval. 4.00—1913 Relay Practice—Field. 4.00—1913 Tug-of-War Practice-Gym.

4.00-1914 Football Practice-Field. 4.15-Final Trials for 1913 Relay-Field.

8.00-Republican Rally at Union. Saturday. 1.00—Tech vs. Harvard Cross-Caun-

try Run over Harvard Course. 1.30-E. E. Society Excursion to Medford Gas Engine Plant of Boston

Elevated Company.
7.00—Orchestra Rehearsal—Union.
8.00—Democratic Rally—Union.

## STURTEVANT BLOWFR WORKS VISITED BY M. E. DOE

# Trips of the Society Proves Interesting

About thirty men went to Hyde Park yesterday on a Mechanical Engineering Society excursion, and visited the Sturtevant Blower Works. Ali the different parts of the plant were visited in turn. The first process seen was the cutting out of the sheet metal for different blower parts; then the blascksmith shop and forge room were inspected. In the forge room all were greatly interested in the forging of a huge crank shaft, which was being forged out by a mammoth steam trip hammer. The machine shop came next, and was interesting because of the fact that it is one of the best equipped and arranged shops in the State. Here parts of blowers and ventilators were being turned out and engine parts for the famous Sturtevant steam engines were being machined. Then the men went to the foundry and watched the pouring. Two furnaces were poured; the large furnace for iron, and a smaller one for composition metal for bearings, After this the pattern shop, testing room and shipping room were seen. In the testing room it was interesting to see numerous sizes of steam engines being given their final

testing before shipment.
The Mechanical Engineering Society has several trips planned for this winter, including some of the largest manufacturing plants in New England. Longer trips than usual will be taken this year, among them probably one to Providence. The real event of the year, however, will be a trip to Buffalo and Niagara, which, it is hoped, can be taken some time this term.

# BOOKS FOR TECH SHOW, 1911, DUE NOVEMBER 3.

Books for Tech Show, 1911, are due at the Cage Thursday, November 3, at 5 P. M. The name of the author should not appear on the book. Numbered envelopes will be left at the Cage and each author should ask for one. The number appearing on the envelope should be placed in a conspicuous place on the cover of the book, and the name of the author should be put in the envelope and sealed. The sealed envelope containing the name of the author of the book finally chosen will not be opened until the night of the Tech Show Komners dinner. The date of this dinner will be announced in a day or two.

If there are any men who desire any further information in regard to the contest they should leave a note at the Cage for E. H. Schell 1912, im-mediately. It is hoped by the management that a large number of plays will be handed in so as to make the choice as varied as is possible. All ceive due consideration should bear in mind that all books are due Thursian but Koberts broke through and had in his tracks, this play ending the first half. who expect their plays

The new notes gotten out for the use of Course II men in the Electrical Engineering Laboratory supply a long felt want, and do much toward making that subject more agreeable and interesting.

While running under a heavy load recently, the 12-h.p. Gray motor, loaned the Institute by the Gray Motor Company of Detroit, was disabled by the breaking of the shaft which will soon be replaced.

The state of the s

### FRESHMEN LOSE TO SOMERVILLE HIGH

# is Shown Over Previous **Games**

In a game filled with all sorts of football. Somerville High Defeated the Freshmen by a score of 11 to 0.

The score does not tell the whole story, however, and only for the fumbling on Somerville's part when near 14's goal line, the former's total

would have been larger.
Twice Somerville was within fifteen yards of Tech line, with a score certain, and twice they lost the ball on fumbles. Tech was never dangerous except in the last half, they coming within one yard of Somerville line in this period, only to lose the ball on downs. The Freshmen at this point rolled right down the field and Somerville's brace came almost too late to save their goal line.

The game started off with a rush;

Tech kicked off. Somerville's full-back gained 25 yards through their left tackle, but they were not held, two downs. Somerville then kicked and Tech brought the ball back about ten yards.

Tech vainly tried the line and then kicked. Garland and Doane of Somerville rushed down the field with gains of five to six yards on each down until the 1914's goal was crossed. Doane made the touchdown and Colsen kicked the goal.

Garland caught the kickoff for Somerville, but gained only about 3 yards. Somerville fumbled and the ball was Tech's on Somerville's 30-yard line; the period ended at this point.

When the interval was over the teams lined up with only one change, Snow of Somerville going in for Dar-

dis.

Tech lost the ball on a fumble, evidently not understanding the signals. But one of Somerville's star men, Doane, was nailed for a loss on the next play, and Somerville very quick-ly punted, Tech bringing the ball back ten yards. Somerville's line held for two downs. Fox then did the unexpected and gained ten yards on a forward pass. The unexpected was good when it was unexpected though, for Fox tried the same formation again, and the move was apparent to even a spectator, the forward pass being intercepted and the ball went to Somerville on downs.

On the first down Somerville made no gain on the next play, but only for Fox of Tech, Doane would have gone right down the field, Fox stopping him after a 25-yard gain. Garland then helped with 4 yards, then Doane 2. Garland 10, Garland 2, the Freshmen stiffening. Somerville tried the forstiffening. Somerville tried the sale was Tech's. divided France into two noscine parameters and the ball was Tech's. divided France into two noscine parameters are the sale was acquited on the charge granted murder because of the erville again used the forward pass, wish of the judges to prevent all rebut Roberts broke through and nailed opening of the old wounds and prejudents.

Somerville kicked off, Van Etten getting the ball and going back about 5 yards. Tech lost the ball, it not making the distance. Somerville tried the result. Doane then made five more, the play laying out Roberts of the Freshmen. however. He was kicked in the scrimmage and was taken out. Mitchell replaced him. On the next play Somerville tried a forward pass, the ball going to Tech on its own 25-yard line.

(Continued on Page 2.)

Repair of the Parket of the Co.

#### REPUBLICANS TAKE STRENUOUS MEASURES

## Historic Old Post Victor of so First of the Series of Weekly Great Improvement, However, President Taft Sends Two Cabinet Members to Ohlo to **Deliver Speeches**

The Entertainment Committee is making a new departure in the line of Friday night entertainments this year by holding two big political rallies. On Friday night a Republican rally will be held, and Arthur D. Hill, former District Attorney, will speak on behalf of the Republican policies and candidates in the State election of candidates in the State election of November 8. The Democratic rally follows on Saturday night, October 29, and a representative from the Democratic campaign committee will address the students on behalf of the Democratic policies and candidates. The students are urged to attend these rallies which, if successful, are to be a precedent for similar mam-moth rallies next year on behalf of the National election. The Entertainment Committee hopes to stir up the voters in the school to their obvious duty at the coming election.

There will be no Friday night entertainment on November 4th, on account of Field Day, but the committee hope to secure for November 11th Mr. Wm. Lord Smith, who has traveled extensively in Africa and on other continents. He has been asked to give his very interesting lecture on "Tiger Hunting." Subsequent to November 11th there will be something in the line of entertainment every week.

President Taft has decided on taking strenuous measures in stemming the Democratic tide in the State of Ohio. As the result of an urgent request from State Chairman Laylin, two members of the President's Cabinet will be sent to Ohio to deliver speeches and to do everything in their power to impress on the people the worth of Republican doctrines. The two Cabinet members selected are Secretary Knox, the President's Premier, and Secretary of the Treasury McVeagh. The former will de-liver speeches in Cincinnati and Columbus, while the latter will speak to the citiznes of up-State towns. These drastic measures show that the Republican party realizes that it is imperative that their doctrines of pro-tective tariff be expounded and ex-tolled, even in the districts of the strongest protectionist feeling. remarks of Mr. McVeagh will be par-ticularly interesting, for he is a fear-less and impressive speaker.

Louis Gregori, the French military writer, who shot Major Dreyfus on the day that Zola's body was placed in the Pantheon, died yesterday, and with him the Dreyfus affair which has dices, because Dreyfus sympathizers were threatening all good lovers of law and order.

Professor Miller gave a lecture last night before the American Institute of Steam Boiler Inspectors at Berk-eley Hall. He discussed the discharge capacity of safety valves at varying pressures and lifts.

Of the 80 applicants who took the recent Civil Service examination for smoke inspection in the Metropolitan district, the three to qualify were all Technology graduates.

# THE TECH

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THURSDAY, OCTOBER 27, 1910.

If we are to believe in omens, yesterday's "victory for 1914" in the tugof-war should encourage the support-ers of the Freshmen in their predic-tions for Field Day. The occurrence at yesterday's practice is the kind of omen that can be depended upon as a forecast of future events. Some of the Sophomores have been over-con-fident of the ability of their class to pull the rope over next week Friday, relying rather upon the weights of their representatives than upon the regular practice of a large number of earnest men. Enthusiasm and the skill acquired by practice are as important factors in winning an event of this nature as natural beef and avoir-

There are always a number of men who hand in their names as competitors for positions of responsibility in activities of the Institute. In our own case, for instance, we must confess that every fall a number of men re-port as heelers for The Tech, and after the first few assignments become half-hearted and unreliable. they are not dropped from the list they continue in the same indifferent way and then wonder why the editors are so unjust as to advance the other man instead. The Tech is sorry to feel that it is not the only organization which has to deal with such men.

To complete our contrast we must mention the men also who work enthusiastically from the start,—who seem to have been born with the single idea at heart of the perfection of the Institute and her activities. They have ideas of their own, yet realize their own position and the absolute authority of the man above. Above all, they are absolutely reliable and they strive to do more and better work than is strictly required of them. Such men are sure to show their ability. They are the men who ultimately fill the positions of responsibility for which they have trained themselves.

Positions of mere honor are not to be found among Institute activities. They are the recognition of reliability, enthusiasm and proved worth.

Course II men are busy looking up and arranging for their thesis. In a later issue mention will be made in these columns of some of these interesting investigations.

(Continued from page 1)

The Somerville quarter carried the pigskin behind Tech's line, the ball being given to the Freshies on their 25-yard line. Tech kicked and Som-erville's quarter ran back 25 yards, he making a high jump to get the ball.

The next few plays were of the linesmashing type, Doane and Garland finding holes in the Freshies' left for from 5 to 25 yards. Somerville simply tore along for a touchdown, Doane making it. The ball was far to the right of the field, and although Doane made a teautiful kick out, the attempt

to kick the goal failed.

Tech kicked off, Somerville running the ball in about 10 yards. Tech now interrupted a forward pass, but were penalized ten yards for interference. Somerville now kicked, but their line did not hold and the punt was blocked, the ball going to M. I. T. The final period now began. The opening play netted Tech 10 yards; then Bryant got 6 more, Mitchell 6 more. Somerville here stiffened and Tech lost the ball on downs. After a small gain Somerville fumbled, Tech getting the ball on Somerville's 20-yard line. Van Etten now plugged the centre for a few yards, Mitchell through light tackle for 4 more; then Van Etten again, the ball being finally on Somerville's one-yard line on the third down. Somerville immediately lost ball on a fumble, but in the next play Tech was penalized 5 yards for being offside. Fox then tried a forward pass, but Somerville got the ball behind its own posts, the teams lining up on Somerville's 25-yard line. Garland now made 20, then 20 more Somerviile on the next play was penalized 5 yards for offside. then made 5 yards. Tech was penalized five yards and then, after a five-yard gain by the indefatigable Garland, time was up, with the ball on

Tech's 25-yard line. SOMERVILLE. Duncan, r. e.....r. e., Morrison Giles, r. t.....r. t., Burnham Rowell, r. g....r. g., Saner Milmore, c.....c, Benjamin Kolseth, l. t...........l. t., Owen Fisher, l. e......l. e., Henderson Dardis, Snow, l. h. b.

l. h. b., Mitchell, Roberts
Garland, r. h. b.....r. h. b. Bryant
Doane, f. b......f. b., Van Etten
Touchdown, Somerville—Doane 2.
Goal from Touchdown—Milmore.
Field Judge—Cheethem

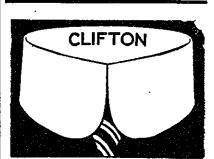
Field Judge-Cheethem. Umpire—McCarthy. Head Linesman—Fales. Referee—E. Garland.

During the present term the secre tary will personally see and talk with every man in the third and fourth years in Course II. It is hoped that this canvass will be to get new members, subscriptions to the Journal, to sell shingles, and in general to work up interest in the society.

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### MECHANICALS TO HAVE WEEKLY EXCURSIONS.

Will Be Held on Wednesday and Fri-day Afternoons—News of the Department.

The first mechanical Engineering Society excursion of the year was held yesterday, when the men enjoyed a trip to the Sturtevant Blower Works at Hyde Park. The party was accompanied by Professor Haven of the de-

From this time on excursions will be held each week, either on Wednesday or Soturday afternoons, which ever seems most convenient to the men. Certain plants do not run on Saturday, which, of course, means that they will have to be visited on some other afternoon, although a few men are inconvenienced thereby. new departure this year will be the attendance of department professors on these excursions. One or more will accompany each party, and will in this way be able to get into c'oser touch with the students, as well as being able to point out subjects of interest in connection with class-room work.

The excursion to Niagara Falls is heing worked on, and will soon be put before the students. This excursion will probably cost \$30 or \$35 per man. although nothing definite can be stated at this time.

Mr. Lawrence S. Smith has changed his office from 13 Eng. B to Professor Lanza's room in Eng. A.

wooden model representing the surface of a perfect gas, of such size that an actual card can be drawn on it. This will do away with the old "string" model and will be of some help to students in thermo-dynamics.

Provision has been made on the new power plant logs on which are the daily records of coal consumption, kilowatt output, etc., for recording smoke observations. By the aid of Ringelmann charts these observations will be taken in the future.

A few words regarding the act pro-viding for the abatement of smoke in this part of the country. Since 1903 A few words regarding the act proand about Boston might be of interest. This act provides that smoke shall be Attorney in Boston.

classified by use of the Ringelmann charts just mentioned. These charts consist of a number of squares ruled in black lines, and are varied by in-creasing the width of the lines, at the same time decreasing the size of the spaces.

The method of classifying smoke is to set up the chart in some convenient position at a distance of about 75 feet from the observer, who then looks at the smoke with one eye and at the chart with the other, and thus by comparison decides on the black-ness of the smoke, each chart of course being numbered. Smoke-stacks are classified according to their area at the top. Class 1 includes all stacks whose inside area at the top is not greater than the area of a circle five feet in diameter; class 2 between a circle five feet in diameter and one of ten feet; class 3, all over ten feet.

According to the law, plants having a stack in class 1 are only allowed to make smoke of grade 3 (dark), for a period of 6 minutes in any one hour auring 1910. In 1911 this is reduced to 4 minutes; in 1912 reduced to light grey smoke for 8 minutes, with no black at all, and in 1913 again cut down to 6 minutes of light grey, which practically means smokeless

A most remarkable step and a most praiseworthy one is to be taken by President Taft, according to Washington despatches. A negro, Mr. Wm. H. Lewis, is to be appointed to the position of Assistant U.S. Attorney General, an honor never before accorded to one of that race. Mr. Lewis is now District Attorney here in Bos-The Institute carpenter is making a much distinction for remarkable work as long as he has been in public life. This great honor was decided upon by President Taft in order to carry out his ideas, that the negro should be given all possible recognition of worth.

Mr. Lewis attended Amberst, where he was captain of the football team in 1892. He then went to Harvard and attained great distinction there, both in scholarship and athletics. In 1895 he passed his bar examinations and since that time he has becoming better and better known in his profes-In 1902 he was elected to the sion. Mr. Lewis has been Assistant District



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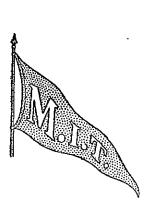
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NOTICE.

1913 Dinner postponed until Wednesday, Nov. 2. All tickets good for that

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1912.

Nominations for class officers open until Wednesday, Nov. 2, at 4 P. M. Leave at Cage or with Committee. D. F. BENBOW, Chairman. C. H. CARPENTER.

D. E. BENT.

The "Dartmouth," the newspaper of the college, has appeared in a new form this year. A four-page sheet A four-page sheet printed three mornings every week takes the place of the larger magazine formerly published twice a week.

#### NOTICE.

The exercises of the Institute will be suspended on Friday, November 4th, after 12 o'clock M., for Fall Field

A. L. MORRILL, Secretary.

#### TECH BOARD.

Meeting of the Board of The Tech in upper office, Union, Friday, 1 P. M. sharp.

1913.

Sophomores who have not received ballots should call at the Cage for them. 20-24

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#### Theatre Tickets.

Seats for Tech Night at the theatre will be on sale in Rogers corridor from today until Friday, October 28, from 1.20 to 2 o'clock. Those not obtaining seats before Friday. October 28, from the theatre committee, will be compelled to go to the box office for them. No seats reserved without payment.

#### EPISCOPALIANS.

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